

7 to 9. Also disclosed is an aqueous carbon-containing unshaped refractory including 3 to 15% by weight based on the total weight of the refractory of a carbon black material having a specific surface area according to a nitrogen adsorption method of 10 to 30 m²/g. The refractory may contain 0.02 to 0.03% by weight of β -naphthalenesulfonic acid-formaldehyde condensate sodium salt per 1% of the carbon black material. The aqueous carbon-containing unshaped refractory is excellent in corrosion resistance and spalling resistance.

REMARKS

Favorable consideration of this application, as presently amended, is respectfully requested.

The present Preliminary Amendment is submitted to place the above-identified application in more proper format under United States practice.

By the present Preliminary Amendment the claims have been amended to no longer recite any multiple dependencies. Further, the subject matter of the cancelled multiple dependencies is now set forth in new dependent Claims 7-11.

The Abstract has also been amended by the present response and no longer recite any legal phraseology.

The present application is believed to be in condition for a full and thorough examination on the merits. An early and favorable consideration of the present application is hereby respectfully requested.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,
MAIER & NEUSTADT, P.C.



Gregory J. Maier
Attorney of Record
Registration No. 25,599
Surinder Sachar
Registration No. 34,423



22850

(703) 413-3000
Fax #: (703) 413-2220
SNS/law

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IN THE CLAIMS

Please amend Claims 5 and 6 as follows.

--5. (Amended) The aqueous carbon-containing unshaped refractory according to claim 3 [or 4], wherein ultrafine powder having a particle diameter of 10 μm or less occupies 2 to 15% by weight of the remainder of the refractory except for the carbon black material and the β -naphthalenesulfonic acid-formaldehyde condensate sodium salt.

6. (Amended) The aqueous carbon-containing unshaped refractory according to [any one of claims] claim 1 [to 5], wherein the refractory has an apparent porosity after drying of 13.0% or less.--

Claims 7-12 (New).

IN THE ABSTRACT

Please delete the abstract in its entirety and insert therefor the following.

--ABSTRACT OF THE DISCLOSURE

An aqueous carbon-containing unshaped refractory [comprising] including a refractory material composed of 50 to 80% by weight of refractory aggregate having a particle diameter of greater than 45 μm and 20 to 50% by weight of fine powder having a particle diameter of 45 μm or less, wherein 15 to 60% by weight of the fine powder is a

carbon black material of pH 7 to 9. Also disclosed is an aqueous carbon-containing unshaped refractory [comprising] including 3 to 15% by weight based on the total weight of the refractory of a carbon black material having a specific surface area according to a nitrogen adsorption method of 10 to 30 m²/g. The refractory may contain 0.02 to 0.03% by weight of β -naphthalenesulfonic acid-formaldehyde condensate sodium salt per 1% of the carbon black material. The aqueous carbon-containing unshaped refractory is excellent in corrosion resistance and spalling resistance. --

Table 1

Year	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	2064	2065	2066	2067	2068	2069	2070	2071	2072	2073	2074	2075	2076	2077	2078	2079	2080	2081	2082	2083	2084	2085	2086	2087	2088	2089	2090	2091	2092	2093	2094	2095	2096	2097	2098	2099	2100																																																												
GDP	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355	360	365	370	375	380	385	390	395	400	405	410	415	420	425	430	435	440	445	450	455	460	465	470	475	480	485	490	495	500	505	510	515	520	525	530	535	540	545	550	555	560	565	570	575	580	585	590	595	600	605	610	615	620	625	630	635	640	645	650	655	660	665	670	675	680	685	690	695	700	705	710	715	720	725	730	735	740	745	750	755	760	765	770	775	780	785	790	795	800	805	810	815	820	825	830	835	840	845	850	855	860	865	870	875	880	885	890	895	900	905	910	915	920	925	930	935	940	945	950	955	960	965	970	975	980	985	990	995	1000